

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/525,126  
Source: P4710  
Date Processed by STIC: 3/4/05

# ***ENTERED***

# CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/525,126

CRF Edit Date: 3/8/05  
Edited by: [Signature]

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

✓ Other: corrected <1507, <1517 numeric identifiers

\_\_\_\_\_

\_\_\_\_\_



PCT10

## RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

3 <110> APPLICANT: NATIONAL RESEARCH COUNCIL OF CANADA  
 5 <120> TITLE OF INVENTION: A GENOMIC APPROACH TO IDENTIFICATION OF NOVEL BROAD-SPECTRUM  
 6 ANTIMICROBIAL PEPTIDES FROM BONY FISH  
 8 <130> FILE REFERENCE: 6899-6/PAR  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/525,126  
 C--> 10 <141> CURRENT FILING DATE: 2005-02-18  
 10 <150> PRIOR APPLICATION NUMBER: PCT/CA03/01323  
 11 <151> PRIOR FILING DATE: 2003-08-22  
 13 <150> PRIOR APPLICATION NUMBER: 60/404,922  
 14 <151> PRIOR FILING DATE: 2002-08-22  
 16 <160> NUMBER OF SEQ ID NOS: 329  
 18 <170> SOFTWARE: PatentIn Ver. 3.2  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 11  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Artificial Sequence  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 27 peptide  
 29 <400> SEQUENCE: 1  
 30 Phe Phe Lys Lys Ala Ala His Val Gly Lys His  
 31 1 5 10  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 32  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
 42 <400> SEQUENCE: 2  
 43 ttcttcaaga aggcycyca ygtsggmaag ca 32  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 11  
 48 <212> TYPE: PRT  
 49 <213> ORGANISM: Artificial Sequence  
 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 53 peptide  
 55 <400> SEQUENCE: 3  
 56 His Val Gly Lys Ala Ala Leu Thr His Tyr Leu  
 57 1 5 10  
 60 <210> SEQ ID NO: 4  
 61 <211> LENGTH: 32  
 62 <212> TYPE: DNA

## RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

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63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
68 <400> SEQUENCE: 4
69 caygtsggma aggcygcycyct saahcaytac ct 32
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 20
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
80 <400> SEQUENCE: 5
81 gcccaactttg tattcgcaag 20
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 20
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
92 <400> SEQUENCE: 6
93 ctgaaggctc cttcaaggcg 20
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 7
98 <212> TYPE: PRT
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
103 peptide
105 <400> SEQUENCE: 7
106 Met Lys Phe Thr Ala Thr Phe
107 1 5
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 21
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
118 <400> SEQUENCE: 8
119 atgaagttca ctgccacctt c 21
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 6
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
129 peptide
131 <400> SEQUENCE: 9
132 Lys Arg Ala Val Asp Glu
133 1 5

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## RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

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136 <210> SEQ ID NO: 10
137 <211> LENGTH: 17
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
144 <400> SEQUENCE: 10
145 tcatcgactg cgcgctt 17
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 7
150 <212> TYPE: PRT
151 <213> ORGANISM: Pleuronectes americanus
153 <400> SEQUENCE: 11
154 Lys Gly Arg Trp Leu Glu Arg
155 1 5
158 <210> SEQ ID NO: 12
159 <211> LENGTH: 21
160 <212> TYPE: DNA
161 <213> ORGANISM: Pleuronectes americanus
163 <400> SEQUENCE: 12
164 aagggcaggt gggtggaaag g 21
167 <210> SEQ ID NO: 13
168 <211> LENGTH: 6
169 <212> TYPE: PRT
170 <213> ORGANISM: Pleuronectes americanus
172 <400> SEQUENCE: 13
173 Tyr Gln Glu Gly Glu Glu
174 1 5
177 <210> SEQ ID NO: 14
178 <211> LENGTH: 17
179 <212> TYPE: DNA
180 <213> ORGANISM: Pleuronectes americanus
182 <400> SEQUENCE: 14
183 cctccccct cctggta 17
186 <210> SEQ ID NO: 15
187 <211> LENGTH: 7
188 <212> TYPE: PRT
189 <213> ORGANISM: Pleuronectes americanus
191 <400> SEQUENCE: 15
192 Arg Lys Arg Lys Trp Leu Arg
193 1 5
196 <210> SEQ ID NO: 16
197 <211> LENGTH: 21
198 <212> TYPE: DNA
199 <213> ORGANISM: Pleuronectes americanus
201 <400> SEQUENCE: 16
202 cgtaagagaa agtgggtgag a 21
205 <210> SEQ ID NO: 17
206 <211> LENGTH: 6

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## RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

```

207 <212> TYPE: PRT
208 <213> ORGANISM: Pleuronectes americanus
210 <400> SEQUENCE: 17
211 Lys Ala Ala His Val Gly
212   1           5
215 <210> SEQ ID NO: 18
216 <211> LENGTH: 18
217 <212> TYPE: DNA
218 <213> ORGANISM: Pleuronectes americanus
220 <400> SEQUENCE: 18
221 aaggctgctc acgttggc
224 <210> SEQ ID NO: 19
225 <211> LENGTH: 20
226 <212> TYPE: DNA
227 <213> ORGANISM: Pleuronectes americanus
229 <400> SEQUENCE: 19
230 ctgaaggctc cttcaaggcg
234 <210> SEQ ID NO: 20
235 <211> LENGTH: 7
236 <212> TYPE: PRT
237 <213> ORGANISM: Pleuronectes americanus
239 <400> SEQUENCE: 20
240 Phe Leu Gly Ala Leu Ile Lys
241   1           5
244 <210> SEQ ID NO: 21
245 <211> LENGTH: 21
246 <212> TYPE: DNA
247 <213> ORGANISM: Pleuronectes americanus
249 <400> SEQUENCE: 21
250 ttcttaggag cccttatcaa a
253 <210> SEQ ID NO: 22
254 <211> LENGTH: 6
255 <212> TYPE: PRT
256 <213> ORGANISM: Pleuronectes americanus
258 <400> SEQUENCE: 22
259 Tyr Asp Glu Gln Gln Glu
260   1           5
263 <210> SEQ ID NO: 23
264 <211> LENGTH: 18
265 <212> TYPE: DNA
266 <213> ORGANISM: Pleuronectes americanus
268 <400> SEQUENCE: 23
269 ctctgtgtgc tcgtcata
272 <210> SEQ ID NO: 24
273 <211> LENGTH: 6
274 <212> TYPE: PRT
275 <213> ORGANISM: Pleuronectes americanus
277 <400> SEQUENCE: 24
278 His Gly Arg His Ala Ala

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## RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

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279   1           5
282 <210> SEQ ID NO: 25
283 <211> LENGTH: 18
284 <212> TYPE: DNA
285 <213> ORGANISM: Pleuronectes americanus
287 <400> SEQUENCE: 25
288 catggtcgtc atgctgcc                                18
291 <210> SEQ ID NO: 26
292 <211> LENGTH: 20
293 <212> TYPE: DNA
294 <213> ORGANISM: Pleuronectes americanus
296 <400> SEQUENCE: 26
297 ctgaaggctc cttcaaggcg                                20
300 <210> SEQ ID NO: 27
301 <211> LENGTH: 6
302 <212> TYPE: PRT
303 <213> ORGANISM: Pleuronectes americanus
305 <400> SEQUENCE: 27
306 Gly Phe Leu Phe His Gly
307   1           5
310 <210> SEQ ID NO: 28
311 <211> LENGTH: 18
312 <212> TYPE: DNA
313 <213> ORGANISM: Pleuronectes americanus
315 <400> SEQUENCE: 28
316 gggatttctt tttcatgg                                18
319 <210> SEQ ID NO: 29
320 <211> LENGTH: 6
321 <212> TYPE: PRT
322 <213> ORGANISM: Pleuronectes americanus
324 <400> SEQUENCE: 29
325 Ser Phe Asp Asp Asn Pro
326   1           5
329 <210> SEQ ID NO: 30
330 <211> LENGTH: 18
331 <212> TYPE: DNA
332 <213> ORGANISM: Pleuronectes americanus
334 <400> SEQUENCE: 30
335 gggttgtcat cgaatgag                                18
338 <210> SEQ ID NO: 31
339 <211> LENGTH: 6
340 <212> TYPE: PRT
341 <213> ORGANISM: Pleuronectes americanus
344 <400> SEQUENCE: 31
345 Arg Ser Thr Glu Asp Ile
346   1           5
349 <210> SEQ ID NO: 32
350 <211> LENGTH: 18
351 <212> TYPE: DNA

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/525,126

DATE: 03/08/2005  
TIME: 18:04:44

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\03082005\J525126.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:298; Xaa Pos. 85  
Seq#:302; Xaa Pos. 37,55  
Seq#:305; Xaa Pos. 9,10,11,17,21  
Seq#:306; Xaa Pos. 2,3,4,6,7,8,12,15,18  
Seq#:307; Xaa Pos. 3,4,5,6,8,9,11,12  
Seq#:309; Xaa Pos. 15  
Seq#:310; Xaa Pos. 11,12,17,18,19,20,21,22,24,29,30  
Seq#:311; Xaa Pos. 5,10,12  
Seq#:312; Xaa Pos. 3,4,6,7,8,12,13,14,16,19,20  
Seq#:315; Xaa Pos. 3,4,5,7  
Seq#:316; Xaa Pos. 2,3,4,5,6,7,8,10,12,13  
Seq#:317; Xaa Pos. 11,12,17  
Seq#:318; Xaa Pos. 2,3,9,10  
Seq#:319; Xaa Pos. 13,14  
Seq#:320; Xaa Pos. 1,2,3,5,6,10,11,15,19



## VERIFICATION SUMMARY

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:44

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:5579 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 272  
L:6290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298 after pos.:80  
L:6391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302 after pos.:32  
M:341 Repeated in SeqNo=302  
L:6529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:305 after pos.:0  
M:341 Repeated in SeqNo=305  
L:6601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:306 after pos.:0  
M:341 Repeated in SeqNo=306  
L:6632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307 after pos.:0  
L:6665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309 after pos.:0  
L:6738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:310 after pos.:0  
M:341 Repeated in SeqNo=310  
L:6772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:311 after pos.:0  
L:6839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312 after pos.:0  
M:341 Repeated in SeqNo=312  
L:6894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:315 after pos.:0  
L:6923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316 after pos.:0  
L:6947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:317 after pos.:0  
M:341 Repeated in SeqNo=317  
L:6978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:0  
L:6999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:319 after pos.:0  
L:7040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:320 after pos.:0  
M:341 Repeated in SeqNo=320



PCT

## RAW SEQUENCE LISTING

DATE: 03/04/2005

PATENT APPLICATION: US/10/525,126

TIME: 12:38:19

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\03042005\J525126.raw

3 <110> APPLICANT: NATIONAL RESEARCH COUNCIL OF CANADA  
 5 <120> TITLE OF INVENTION: A GENOMIC APPROACH TO IDENTIFICATION OF NOVEL BROAD-SPECTRUM  
 6 ANTIMICROBIAL PEPTIDES FROM BONY FISH  
 8 <130> FILE REFERENCE: 6899-6/PAR  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/525,126  
 C--> 11 <141> CURRENT FILING DATE: 2005-02-18  
 13 <150> PRIOR APPLICATION NUMBER: 60/404,922  
 14 <151> PRIOR FILING DATE: 2002-08-22  
 16 <160> NUMBER OF SEQ ID NOS: 329  
 18 <170> SOFTWARE: PatentIn Ver. 3.2

Does Not Comply  
 Corrected Diskette Needed

## ERRORED SEQUENCES

7179 <210> SEQ ID NO: 329  
 7180 <211> LENGTH: 68  
 7181 <212> TYPE: PRT  
 7182 <213> ORGANISM: Pleuronectes americanus  
 7184 <400> SEQUENCE: 329  
 7185 Met Lys Phe Thr Ala Thr Phe Leu Met Met Ala Ile Phe Val Leu Met  
 7186 1 5 10 15  
 7188 Val Glu Pro Gly Glu Cys Gly Trp Gly Ser Phe Phe Lys Lys Ala Ala  
 7189 20 25 30  
 7191 His Val Gly Lys His Val Gly Lys Ala Ala Leu Thr His Tyr Leu Gly  
 7192 35 40 45  
 7194 Asp Lys Gln Glu Leu Asn Lys Arg Ala Val Asp Glu Asp Pro Asn Val  
 7195 50 55 60  
 7197 Ile Val Phe Glu  
 7198 65  
 7200 1/127  
 E--> 7204 144

10/525,126 2

# SEQUENCE LISTING

<110> NATIONAL RESEARCH COUNCIL OF CANADA

<120> A GENOMIC APPROACH TO IDENTIFICATION OF NOVEL BROAD-SPECTRUM  
ANTIMICROBIAL PEPTIDES FROM BONY FISH

<130> 6899-6/PAR

<1507> <140> PCT/CA03/01323  
<1517> <141> 2003-08-22

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/525,126

DATE: 03/04/2005

TIME: 12:38:20

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\03042005\J525126.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:5579 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 272  
L:6290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298 after pos.:80  
L:6391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302 after pos.:32  
M:341 Repeated in SeqNo=302  
L:6529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:305 after pos.:0  
M:341 Repeated in SeqNo=305  
L:6601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:306 after pos.:0  
M:341 Repeated in SeqNo=306  
L:6632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307 after pos.:0  
L:6665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309 after pos.:0  
L:6738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:310 after pos.:0  
M:341 Repeated in SeqNo=310  
L:6772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:311 after pos.:0  
L:6839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312 after pos.:0  
M:341 Repeated in SeqNo=312  
L:6894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:315 after pos.:0  
L:6923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316 after pos.:0  
L:6947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:317 after pos.:0  
M:341 Repeated in SeqNo=317  
L:6978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:0  
L:6999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:319 after pos.:0  
L:7040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:320 after pos.:0  
M:341 Repeated in SeqNo=320  
L:7204 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:329